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| http://t0.gstatic.com/images?q=tbn:ANd9GcTs2lVq-V50BwRlPhBLrrY-tNBJ8JXVZQOJZ9tB7NFv0R5vQEsk | **Methods 1 Revision:**  **Shape and Space Questions A** |  |

*There are 2 similar parts to each question, if you get help with the 1st part try to do the 2nd part by yourself.*

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| **No.** | **Questions** | | | | | | | | | | | | **Marks** |
| 1(a) | The diagram shows two identical shapes A and B.  Describe **fully** the **single** transformation that takes shape A to shape B. | | | | | | | | |  | | | 3 |
| 1(b) |  | | Copy this diagram.  Rotate the triangle 90˚ clockwise about the point C. | | | | | | | | | | 2 |
| 2(a) | Enlarge triangle T by scale factor 2 with (0, 0) as the centre of enlargement | | | | | |  | | | | | | 3 |
| 2(b) |  | | | | The diagram shows two triangles A and B.  Describe fully the **single** transformation that maps triangle A onto triangle B. | | | | | | | | 3 |
| 3(a) | Describe fully the single transformation that takes triangle S onto triangle T. | | | | | | | |  | | | | 2 |
| 3(b) |  | | | | The diagram shows two triangles A and B.  Describe fully the **single** transformation that maps triangle A onto triangle B. | | | | | | | | 2 |
| 4(a) | Triangle ABC is similar to triangle XYZ.  Calculate the lengths x and y. | | | | | | |  | | | | | 3 |
| 4(b) |  | | | | Triangle JKL is similar to triangle GKH.  Calculate the length x. | | | | | | | | 3 |
| 5(a) | The diagram shows a circle with centre O and ABT is a straight line.  Angle AOB = 100o and angle CBT =108o.  Find, giving reasons, the size of the angles labeled x, y and z. | | | | | | | | | | | http://mathsteaching.files.wordpress.com/2008/02/angles-04.jpg | 6 |
| 5(b) | http://mathsteaching.files.wordpress.com/2008/02/angles-06.jpg | In the diagram O is the centre of the circle.  AOB is a straight line parallel to DC.  Calculate, giving reasons, the size of the angles labeled p, q and r. | | | | | | | | | | | 6 |
| 6(a) | A, B, C and D are 4 points on a circle. DPA and BPC are straight lines.  Work out the length of AP. | | | | | | | | | | |  | 3 |
| 6(b) |  | | | A, B, C and D are points on a circle. PAB and PCD are straight lines.  PA =4 cm. AB =11 cm. PC =5 cm.  Work out the length of DC. | | | | | | | | | 3 |
| 7(a) |  | | | | |  | | | | | | | 6 |
| 7(b) |  | | | | | | | | | |  | | 6 |
| 8(a) |  | | | | | | | | | | | | 4 |
| 8(b) |  | | | | | | | | | | | | 4 |